Notebook, N-00-03-12

Phonograph Cylinder
Book # 3.

John Clarence Shingle

#659 - 660 - 661 - 662 - 666

#661 is black and #662 is very hard rock

Do grind as regular.

Bottle are yummy with Hanna, keep one

6665 = 95% # 651
3/12/00 5% Black Ceremin

667 - 90% # 651
3/12/00 10% Blk Ceremin

85% # 651
668 15% Blk Ceremin
3/12/00

95% # 651
669 5% Japan wax
3/12/00

90% # 651
670 10% Japan wax
3/12/00

671 - 40 g Stearic Acid (7.50)
3/12/00 10 g. Citric acid
~~30 g~~ Rouge wg
~~200 g~~ Blk Ceremin.
5 g. Mg CO3

Butter, Hard. M.g.

6/2 — 40 g. Stearate Soda 7.80
10 g. Stearic acid
3/12/00 — 30 g. Wood tar pitch
20 g. Blk Cerussite
1 g. Mg CO3
Brittle, Hard, N.G.

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6/3 — 40 g. Stearate Soda 7.80
10 g. Stearic acid, Benzoin, Brittle
3/12/00 — 30 g. ~~Brittle tar~~ pitch, Wood tar
20 g. Blk cerussite, dry as
1 g. Mg CO3 Brittle N.G.

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6/4 — 40 g. Stearate Soda 7.80
10 g. Stearic acid
3/12/00 — 30 g. Wood tar
20 g. Terpene 120
1 g. MgCO3
Brittle, ~~Marble lamp~~ Glycerin N.G.

6) J-
3/1/00

40 g. Fluorate Soda 7.50
10 g. Stearic acid
30 g. Mordant paste
20 g. Paraffin 120
1 g. $MgCO_3$
Bright

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6) 6
3/1/00

40 g. Fluorate Soda 7.50
10 g. Stearic acid
30 g. Burgundy paste
20 g. Paraffin 120
1 g. $MgCO_3$
Pair - made comp

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677 -
3/1/00

30 g. Fluorate Soda 7.50
10 g. Stearic acid
3½ g. Rouge wg.
2½ g. Paraffin 120
½ g. $MgCO_3$

Pair - dve cut as good as 676

6) 8 - 3vg. Guarati Arda ). Fo
3/12/00 10 g. Tetani Acid
3½ g. Wood tar pitch
2½ g. Paraffin 120
½ g. Mgco₃
Brittle

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6) 9 - 3vg. Guarati Arda ). Fo
3/12/00 10 g. Tetanic acid
3½ g. Burgundy pitch
2½ g. Paraffin 120
½ g. Mgco₃
Fair - medium Charge

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6 80 - 3vg. Guarati Arda (6.6 ½)
3/12/00 10 g. Tetanic acid
3½ g. Wax wg
2½ g. Resi cimmin
½ g. Mg CO₃
Hard, brittle, N. g.

681
3/1/00

30 g. Stearate Soda 6.61-
10 g. Stearic Acid
3½ g. Mineral Carpatch
2½ g. Beeh. Cerevisiae
6 g. $MgCO_3$

Hard, brittle - no g

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682-
3/1/00

30 g. Stearate Soda 6.65-
10 g. Stearic acid
3½ g. Burgundy pitch
2½ g. Beeh. Cerevisiae
½ g. $MgCO_3$

Brittle - no glycerine
Mauve

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683-
3/1/00

25 g. Stearate Soda 6.65-
6 g. Stearic acid.
~~24 oz~~ Rose wg.
~~30 g~~ Paraffine 120
½ g. $MgCO_3$
Mauve carge

Paris

2 J-g. Quarzati Soda 6.6 J-
J-g. Citric acid
* 684 40 g. wood tar pitch
21/12/00 30 g. paraffine 120
J-g. Mg $CO_3$
Pair - Shadowings not so deep

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685- 2 J-g. Quarzati Soda 6.6 J-
J-g. Citric acid
21/12/00 40 g. Burgundy pitch
30 g. paraffine 120
J-g. Mg $CO_3$
Pair - well than 684

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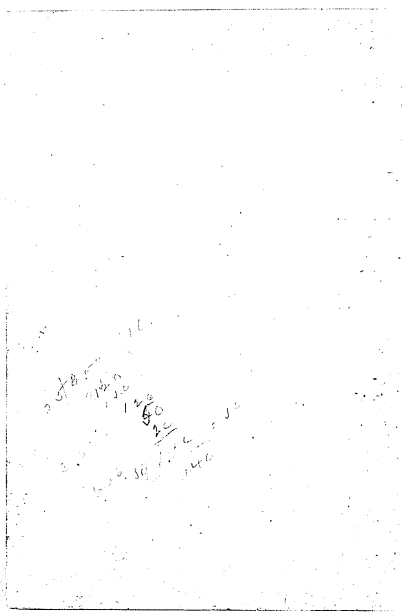
686 2 J-g. Quarzati Soda 6.6 J-
J-g. Citric acid
21/12/00 40 g. rosin wg
30 g. Fels ceresine
J-g. Mg $CO_3$
Pearl, brittle



687
3/13/00

25 g. Stearate Soda 6.6 1-
1 g. Stearic acid
40 g. wood tar pitch
30 g. Bees wax
5 g. Mg $CO_3$
Incense - Brittle - no G.

688
3/13/00

25 g. Stearate Soda 6.6 1-
1 g. Stearic acid
40 g. Burgundy pitch
30 g. Bees wax
5 g. Mg $CO_3$
Brittle - gummy, hardness

689
3/13/00

30 g. Mg resinate 100:1-
20 g. paraffin 120
2 g. - dissolves well cool - fair mfg

690
3/13/00

30 g. Mg resinate 100:1-
20 g. Bees wax
2 g. no mix good.

691 10 g. Stearate Ca 100 : 8
3/13/00 1½ g. Mg. Stearate 100 : 10
40 g. Rosin wg.
30 g. paraffin 120
½ g. Mg CO3
very hard pellets soft-gummy

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692 10 g. Stearate Ca 100 : 8
1½ g. Mg Stearate 100 : 10
3/13/00 40 g. Wood turpentine
30 g. paraffin 120
½ g. Mg CO3
pellets with difficulty very soft.

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693 10 g. Stearate Ca 100 : 8
1½ g. " Mg 100 : 10
3/13/00 40 g. Burgundy pitch
30 g. paraffin 120
½ g. Mg CO3
soft, sticky

694 10 g. Ca Stearate 100:8
1 1/2-g. Mg Stearate 100:10
3/13/00 40 g Rosin wg
30 g Bees wax
5-g. Mg CO3 gummy.
M. G. Th. Mg face tablets.

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695 30 g. Mg Stearate
10-g. Ca "
3/13/00 40-g. Rosin wg
30-g. Paraffin
1-g. Mg CO3
gummy. stiff - very

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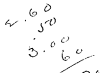
696 30 g. Mg Stearate
10-g. Ca "
3/14/00 40-g. Rosin wg
30-g. Bees wax
5-g. Mg CO3
Brittle - gummy.



697 20g Mg Stearate 100:10
50g. rosin
3/14/00 30g. paraffin 120
5g. MgCO3
Opr.

698 30-g. Ca Stearate 100:8
50g. rosin wg
3/14/00 20g paraffin 120
5g. MgCO3
Juror fair

699 25-g. Ca Stearate 100:8
5-g. Stearate zinc 100:5-
50g. rosin wg
3/14/00 20g. paraffin 120
5g. MgCO3
Not dry

Lot 700 — 999 in Book #2

| | |
|---|---|
| 800 | 25 g. Citrate Soda 6.6 % |
| | 40 g. rosin wg. |
| 3/14/00 | 30 g. paraffine 120 |
| | 4 g. Mg CO3 |
| | 700 evaporated |

| | |
|---|---|
| 801 — | 30 g. rosin, coll, H. |
| 3/14/00 | 30 g. paraffine 125 |
| | 2 g. Mg CO3 |

| | |
|---|---|
| 802 | 200 c.c. Soda nit. |
| 3/15/00 | 18° B. |
| | 2 g. Ac. |
| | 400 g. Citric Acid |

| | |
|---|---|
| 803 | 200 cc Soda nit. |
| 3/16/00 | 18° B. |
| | 3 g. alum. |
| | 400 g. Citric Acid |

Sh4 700 gc Soda arc.
3/10/00 1800 B.
4 g. Al.
400 g. Citric acid

SDJ⁻ 140 c.c. Soda arc.
3/10/00 18° B.
4 g. Al.
Sh1. 300 g. Citric acid
Gelatine
A.g. 700 g. Mass wg.

86 – Marlin cyl.
3/10/00 4440 g. Regnocr.
~~440 g. Sal Soda~~
~~440 g. Distilled Soda~~
880 g. Sal Soda.

Stearate Soda used in
807 - 808 - 809 - 810 - 811 - 812 - 813 -
814 - 815

700 gm. Stearic Acid
1374 g. Sal Soda

807
3/20/00 50 g. Stearate Soda
300 g. B. pitch
20 g. paraffine 125-
5 g. Mg CO3
no precipitate, saponification
fair to ream etc

808
3/20/00 40 g. Stearate Soda
35 g. rosin wg
25 g. paraffin 125-
5 g. Mg Cl2
no precipitate contraction
fair to ream etc

809
3/21/00

40 g. Stearat Soda
35 g. B. pitch
25 g. Paraffine
5 g. Mg $CO_3$
M. g. Very soft - take a piece 2 hrs to harden

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Mantle Cyl.

810.
3/27/00

600 g. Stearic Acid
324 g. Acetate Soda
400 g. Stearate Al.
1200 g. Kerosene

8/1 — 450 g. Stearate soda
3/21/00 — 35 g. Burgundy pitch
25 g. Beeswax
1 g. Mg CO3

Very hard to mould
takes a long time to harden.
Very gummy on staining & edging and staining

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8/7 — 300 g. Stearate soda
40 g. resin wax
3/21/00 — 300 g. paraffin 125–135
15 g. Mg CO3

Mg. F.
Too long to harden

"8/3 30g. Stearate Soda
2/21/00 40g. wood Tar pitch
2/22/00 30g. Paraffine 125—
1g 1mg $CO_3$
Can't Mould

"8/4 30g. Stearate Soda
2/21/00 30g. paraffine 125
2/22/00 40g. Burg. Pitch
1g 1mg $CO_3$

"8/5 30g Stearate Ca 100°C
2/22/00 30g. wood tar
30g. paraffine 125
1g 1mg $CO_3$

480
40
200
36
7.56

#816 40g. Stearato Arda
3/22/00 35-g. Resinato Ca 200 : 5-
25-g paraffine 125-
3 g. $MgCO_3$
Alright on edges etc

#817 40 g. Stearato Arda
3/22/00 30 g. Resinato Ca 200 : 9
30 g. paraffine 125-
3 g $MgCO_3$
pretty good on edges etc

#818 150% #801
3/23/00 150% #802
Nice consistency
Accels first and then takes
a long time to yield
being hard enough to take out of mould

#819 60% #801
3/23/00 40% #803
See #816 - Much harder to filter
middle - Gummy.

#820 70% #801
3/24/00 30% #802
See #819 Notes

#821 70% #801
3/27/00 30% Sucrets al.
Rather hard to mix. Were
not melt to homo. fluid

#822 70% #801
3/27/00 30% Regnocen
very gummy on edges etc

823 10% # 801
3/23/00 15% Bur. Petch
Proof. 10% paraffine 125-
25% St. Tar

824 68% # 802
3/20/00 24% rosin 125
8% par. 125-
Proof, stringy coarse grained

825- 68% # 802
3/20/00 24% B. petch
Stringy 8% par. 125-

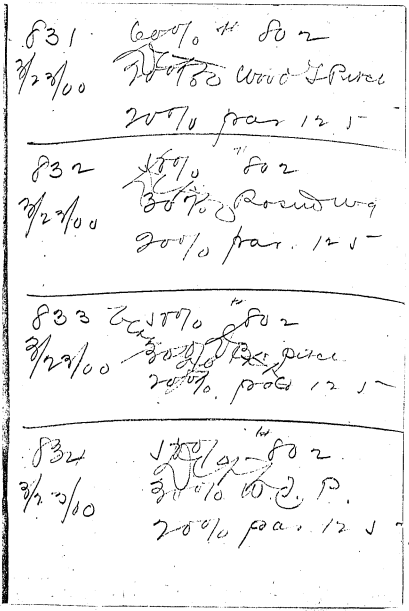
826 68% # 802
3/21/00 Rosin 24% wood tar petch
8% par. 125-

827 60% " 80z
3/23/00 Mfg. Bleaty 30% Rounding
10% par. 12 s-

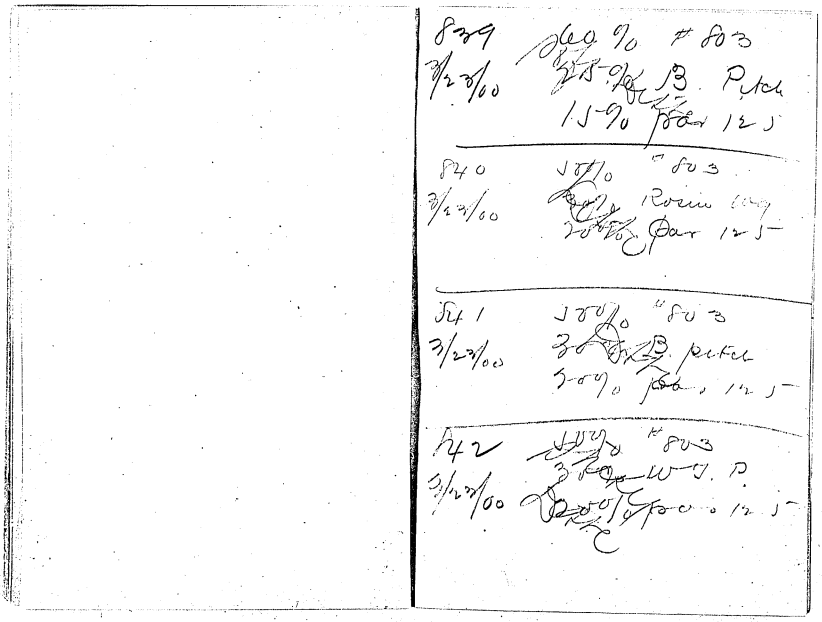
828 60% " 80z
3/23/00 Mfg. 30% Dispatch
10% par. 12 s-
Bleaty Cream

829 60% " 80z
3/23/00 30% Rounding
10% par 12 s-

830 60% " 80z
3/23/00 30% 13. patch
10% par 12 s-
Father was contractor



| | |
|---|---|
| 835 | Hem "802 |
| 3/23/00 | 4 Rosin wg. |
| | 100 pcs 12 J- |
| 836 | Hem "802 |
| 3/23/00 | 4 B. pink |
| | 100 pcs 12 J- |
| 837 | Hem "802 |
| 3/23/00 | 4 W.P. |
| | 100 pcs 12 J- |
| 838 | Hem "803 |
| 3/23/00 | Rosebud |
| | 100 pcs 12 J- |

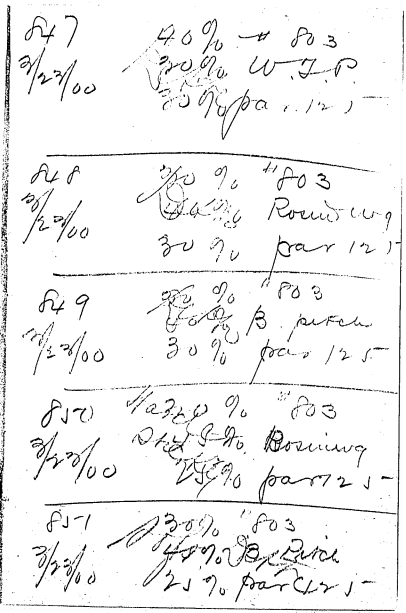


843
3/2 3/0.0
40% # 803
3 Blk Rowing
25% Grain 125

844
3/2 3/0.0
40% # 803.
3 Blk B. Rice
25% Grain 125

845
3/2 3/0.0
40% # 803.
30 Blk Rice wg
30% grain 1/2 J

846
3/2 3/0.0
40% # 803
30 Blk B. Rice
30% Grain 1/2 J



#817 - 817 - 816 - 815 - 814 - 813 - 812 - 811 - 810 - 809 - 808 - 807 - 806 - 805 - 804 - 803 - 802 - 801 - 800 - 799 - 798 - 797 - 796 - 795 - 794 - 793 - 792 - 791 - 790 - 789 - 788 - 787 - 786 - 785 - 784 - 783 - 782 - 781 - 780 - 779 - 778 - 777 - 776 - 775 - 774 - 773 - 772 - 771 - 770 - 769 - 768 - 767 - 766 - 765 - 764 - 763 - 762 - 761 - 760 - 759 - 758 - 757 - 756 - 755 - 754 - 753 - 752 - 751 - 750 - 749 - 748 - 747 - 746 - 745 - 744 - 743 - 742 - 741 - 740 - 739 - 738 - 737 - 736 - 735 - 734 - 733 - 732 - 731 - 730 - 729 - 728 - 727 - 726 - 725 - 724 - 723 - 722 - 721 - 720 - 719 - 718 - 717 - 716 - 715 - 714 - 713 - 712 - 711 - 710 - 709 - 708 - 707 - 706 - 705 - 704 - 703 - 702 - 701 - 700 - 699 - 698 - 697 - 696 - 695 - 694 - 693 - 692 - 691 - 690 - 689 - 688 - 687 - 686 - 685 - 684 - 683 - 682 - 681 - 680 - 679 - 678 - 677 - 676 - 675 - 674 - 673 - 672 - 671 - 670 - 669 - 668 - 667 - 666 - 665 - 664 - 663 - 662 - 661 - 660 - 659 - 658 - 657 - 656 - 655 - 654 - 653 - 652 - 651 - 650 - 649 - 648 - 647 - 646 - 645 - 644 - 643 - 642 - 641 - 640 - 639 - 638 - 637 - 636 - 635 - 634 - 633 - 632 - 631 - 630 - 629 - 628 - 627 - 626 - 625 - 624 - 623 - 622 - 621 - 620 - 619 - 618 - 617 - 616 - 615 - 614 - 613 - 612 - 611 - 610 - 609 - 608 - 607 - 606 - 605 - 604 - 603 - 602 - 601 - 600 - 599 - 598 - 597 - 596 - 595 - 594 - 593 - 592 - 591 - 590 - 589 - 588 - 587 - 586 - 585 - 584 - 583 - 582 - 581 - 580 - 579 - 578 - 577 - 576 - 575 - 574 - 573 - 572 - 571 - 570 - 569 - 568 - 567 - 566 - 565 - 564 - 563 - 562 - 561 - 560 - 559 - 558 - 557 - 556 - 555 - 554 - 553 - 552 - 551 - 550 - 549 - 548 - 547 - 546 - 545 - 544 - 543 - 542 - 541 - 540 - 539 - 538 - 537 - 536 - 535 - 534 - 533 - 532 - 531 - 530 - 529 - 528 - 527 - 526 - 525 - 524 - 523 - 522 - 521 - 520 - 519 - 518 - 517 - 516 - 515 - 514 - 513 - 512 - 511 - 510 - 509 - 508 - 507 - 506 - 505 - 504 - 503 - 502 - 501 - 500 - 499 - 498 - 497 - 496 - 495 - 494 - 493 - 492 - 491 - 490 - 489 - 488 - 487 - 486 - 485 - 484 - 483 - 482 - 481 - 480 - 479 - 478 - 477 - 476 - 475 - 474 - 473 - 472 - 471 - 470 - 469 - 468 - 467 - 466 - 465 - 464 - 463 - 462 - 461 - 460 - 459 - 458 - 457 - 456 - 455 - 454 - 453 - 452 - 451 - 450 - 449 - 448 - 447 - 446 - 445 - 444 - 443 - 442 - 441 - 440 - 439 - 438 - 437 - 436 - 435 - 434 - 433 - 432 - 431 - 430 - 429 - 428 - 427 - 426 - 425 - 424 - 423 - 422 - 421 - 420 - 419 - 418 - 417 - 416 - 415 - 414 - 413 - 412 - 411 - 410 - 409 - 408 - 407 - 406 - 405 - 404 - 403 - 402 - 401 - 400 - 399 - 398 - 397 - 396 - 395 - 394 - 393 - 392 - 391 - 390 - 389 - 388 - 387 - 386 - 385 - 384 - 383 - 382 - 381 - 380 - 379 - 378 - 377 - 376 - 375 - 374 - 373 - 372 - 371 - 370 - 369 - 368 - 367 - 366 - 365 - 364 - 363 - 362 - 361 - 360 - 359 - 358 - 357 - 356 - 355 - 354 - 353 - 352 - 351 - 350 - 349 - 348 - 347 - 346 - 345 - 344 - 343 - 342 - 341 - 340 - 339 - 338 - 337 - 336 - 335 - 334 - 333 - 332 - 331 - 330 - 329 - 328 - 327 - 326 - 325 - 324 - 323 - 322 - 321 - 320 - 319 - 318 - 317 - 316 - 315 - 314 - 313 - 312 - 311 - 310 - 309 - 308 - 307 - 306 - 305 - 304 - 303 - 302 - 301 - 300 - 299 - 298 - 297 - 296 - 295 - 294 - 293 - 292 - 291 - 290 - 289 - 288 - 287 - 286 - 285 - 284 - 283 - 282 - 281 - 280 - 279 - 278 - 277 - 276 - 275 - 274 - 273 - 272 - 271 - 270 - 269 - 268 - 267 - 266 - 265 - 264 - 263 - 262 - 261 - 260 - 259 - 258 - 257 - 256 - 255 - 254 - 253 - 252 - 251 - 250 - 249 - 248 - 247 - 246 - 245 - 244 - 243 - 242 - 241 - 240 - 239 - 238 - 237 - 236 - 235 - 234 - 233 - 232 - 231 - 230 - 229 - 228 - 227 - 226 - 225 - 224 - 223 - 222 - 221 - 220 - 219 - 218 - 217 - 216 - 215 - 214 - 213 - 212 - 211 - 210 - 209 - 208 - 207 - 206 - 205 - 204 - 203 - 202 - 201 - 200 - 199 - 198 - 197 - 196 - 195 - 194 - 193 - 192 - 191 - 190 - 189 - 188 - 187 - 186 - 185 - 184 - 183 - 182 - 181 - 180 - 179 - 178 - 177 - 176 - 175 - 174 - 173 - 172 - 171 - 170 - 169 - 168 - 167 - 166 - 165 - 164 - 163 - 162 - 161 - 160 - 159 - 158 - 157 - 156 - 155 - 154 - 153 - 152 - 151 - 150 - 149 - 148 - 147 - 146 - 145 - 144 - 143 - 142 - 141 - 140 - 139 - 138 - 137 - 136 - 135 - 134 - 133 - 132 - 131 - 130 - 129 - 128 - 127 - 126 - 125 - 124 - 123 - 122 - 121 - 120 - 119 - 118 - 117 - 116 - 115 - 114 - 113 - 112 - 111 - 110 - 109 - 108 - 107 - 106 - 105 - 104 - 103 - 102 - 101 - 100 - 99 - 98 - 97 - 96 - 95 - 94 - 93 - 92 - 91 - 90 - 89 - 88 - 87 - 86 - 85 - 84 - 83 - 82 - 81 - 80 - 79 - 78 - 77 - 76 - 75 - 74 - 73 - 72 - 71 - 70 - 69 - 68 - 67 - 66 - 65 - 64 - 63 - 62 - 61 - 60 - 59 - 58 - 57 - 56 - 55 - 54 - 53 - 52 - 51 - 50 - 49 - 48 - 47 - 46 - 45 - 44 - 43 - 42 - 41 - 40 - 39 - 38 - 37 - 36 - 35 - 34 - 33 - 32 - 31 - 30 - 29 - 28 - 27 - 26 - 25 - 24 - 23 - 22 - 21 - 20 - 19 - 18 - 17 - 16 - 15 - 14 - 13 - 12 - 11 - 10 - 9 - 8 - 7 - 6 - 5 - 4 - 3 - 2 - 1

#819 and #813 have short nuts as usual as required

| | | |
|---|---|---|
| 813-2 | 60% | " Sour |
| 3/2 8/00 | 30% | Raisiny |
| | 10% | Pa. Pan |

very gummy in center, edges Tough

| | | |
|---|---|---|
| 813-3 | 60% | " Sour |
| 3/2 8/00 | 30% | Raisiny |
| | 10% | pan |

| | | |
|---|---|---|
| 813-4 | 60% | " Sour |
| 3/2 8/00 | 20% | Raisiny |
| | 20% | pan |

very gummy.

| | | |
|---|---|---|
| 813-Nut | 60% | " Sour |
| 3/2 8/00 | 20% | Raisiny |
| | 20% | pan |

Outside very gummy in center

| | | |
|---|---|---|
| 836 | 50% | " Sour |
| 3/28/00 | 30% | Raisin |
| | 10% | pan |

85 - 40 g/o # Sort
3/12/00 Rounding 1 g/o Round wg
15 g/o par 12 J-

85 Sh 40 g. # Sort
3/12/00 Rounding 48 g. Round wg
160 g. par 12 J-

85 Sh 40 g. # Sort
3/12/00 Rounding 48 g. Round wg
160 g. par 12 J-

Sleo 40 g. # Sort
3/12/00 Rounding 54 g. Round wg
180 g. par 12 J-

Sleo 40 g. # Sort
3/12/00 Rounding 42 g. Round wg
140 g. par 12 J-

862 — 31 g " 804
3/23/00 [illegible] Rowdwg
[illegible] bar 12 J —

863 30 g " 804
3/23/00 [illegible] Rowan wg
11 g. bar 12 J —

864 [illegible] " 804
3/23/00 [illegible] Rowan wg
[illegible] bar 12 J —
2 g MgCO3

865 — 32 g " Front
3/23/00 33 g Rowan wg
11 g bar 12 J —
2 g MgCO3

866 32g # 8024
2/23/00 Coarse 3g Round mg
11g Pear 12 s -
4g mg CO3

867 30g # 8024
2/23/00 Rectangular mg
Lamp 9g Pear 12 s -
Glass 6g mg CO3

868 # 8024
2/23/00 5g Triangular mg
7, 12g Pear 12 s -
8g mg CO3

809.
3/28/00 Digested grease wood #4 with water

870
3/28/00 Digested grease wood #4 with water the Sol. becomes brown, add addn of acid the Sol. first changes to green then to coffee tan color and finally reddish which is more nothing separates out. The odor is strong resembling boiling cider or Chippewa acid

871
3/28/00 Digested grease wood #4 in Soxhlet Extractor with Chloroform for 3 hrs.
3.5 gm roots used
10% or 316 g. of a resinous mass obtained.

870 - This solution was filtered - the material on the filter dissolved in alcohol and the alcohol evaporated off. The residue is resinous and black - sticky + soft.

NE # 899

872 – 3/29/00

Digested grease wood ☆ 4 with meek of lime. for a period of 6 hours. Then filtered off the woody material, decomposed any lime salt and dissolved the excess of lime with HCl – Then filtered & dissolved the stuff on filter in alcohol & evaporated off the alcohol. The residue dark in color and similar to #870 but more fluid and sticky. After a period of 10 days – a crystalline mass appeared

873 - 3/29/00

Treat the stems - 20 g. of grease wood # 4 with Chloroform in Soxhlet Extractor for 5 hours. The stems were well pounded in a porcelain mortar.

The residue after the Chloroform had been distilled off weighed 5.5 g. or 27.5% d.

Dark in color - a heavy sticky resinous fluid.

AE # 901

F74-3/30/00

Treated 200g Plastic of grease wood #4 in Soxhlet Extraction with Carbon Tetrachloride for 5 hours. The plastic was well buried in a pinyon-juniper mortar fence. The residue after $CCl_4$ had been distilled off weighed 3.1 g. W/569 Lighter in color than #3. Less fluid but sticky & resinous

875 3/31/00

Treated 20 g. Stem, were bruised in porcelain mortar in Soxhlet Extractor with Ether for 4 hours. Then distilled off the ether. The residue weighed 4 gms. or 20%. The material has the general appearance of #873

F76 4/2/00

Treated 20 g. of stem of grease wood # 4 - from New Mexico in Soxhlet Extractor with Benzol for 4 hours. The stems were well bruised. The Benzol solution was then evaporated and the residue weighed 3 g. or 15%. The general appearance like the others

see # 881

877 4/20/00

Boiled some wood turned stems of grease wood in alcoholic solution of NaOH in a flask connected with a return condenser for 3 hours. The liquid i.e. the alcoholic soda solution, has a very dark color and a pyridine like odor after filtering. The alcohol was evaporated off, the soda solution decomposed with 50% $H_2SO_4$ and the whole filtered through a paper filter, everything appears to go through. The color and odor is almost the same as #870. This liquid means then treated with $CS_2$ in separating funnel — $CS_2$ evaporated off without separation + the whole boiled with water.

#878 4/1/00

Upon looking at #872 Friday there appeared to be a separation - one substance is black and sticky while the other appears to be a colorless oil. Swirled up this and then tried to filter off the black material by means of cheese cloth. This doesn't appear to take out all the black matter. Thought that by dissolving it in alcohol and then filtering through paper might work but the black also dissolves. Upon evaporating off the alcohol the residue is a blackish white solid, when cook it becomes dirty looking and mushy as if it had taken up moisture

4/7/00. The above has crystallized out in long radiating crystals

#879 4/2/00

Need to saponify #873 with Caustic soda. Saponification takes place - The resulting compound is a thick liquid dark in color.

# 880. 4/3/00

Treated 100 g. crushed grease wood - stem, & roots - in hot mash of lime containing 100 g. lime for 8 hrs. Filtered through cheese cloth after decomposing with acid. A good strong squeezing was resorted to in order to squeeze through the cloth any oil or resin. A portion of this was treated in a flask connected with a reflux condenser with benzine. This separated in a separatory funnel and the benzine evaporated. The residue was light in color small in amount and very sticky.

881 4/3/00

The material in #87 that had been subjected to extraction, being very mushy was boiled with water. Then filtered through paper filter. Treated to carbon bisulphide in separatory funnel. Nothing appeared to be extracted, however upon evaporating the carbon bisulphide there remained a very small quantity of light colored matter, greasy and paint like.

The water, carrying over the oil and after separating the oil requires 3.3 N $Na_2CO_3$ sol to neutralize or .1649 g $Na_2CO_3$ or .097 g $Na_2O$ for 100 c.c. of the water distillate, showing presence of volatile fatty acids.

See #900
#902

882 4/5/00

Distilled 50 g. crushed grease wood twice with water. Used about 1000 c.c. water. A small quantity of oil came over.

883 4/5/00

Distilled the same stem as in #882 with 5% solution $H_2SO_4$. Most of the oil comes over towards the end when the heat is raised, the oil is colored brownish.

1% volatile oil

#884 4/5/00

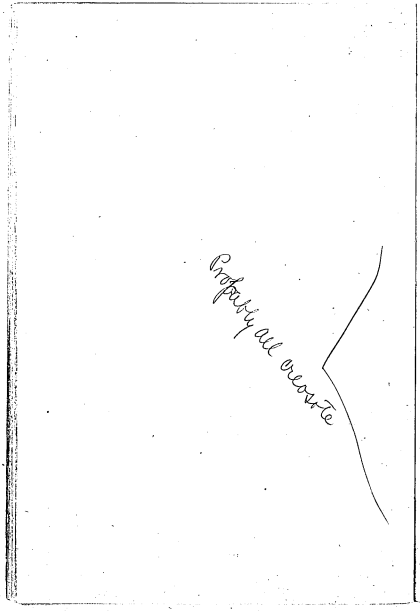
Registered 100 g. crushed stems of grass weed in a Soxhlet Extractor of 1a Shrugler Work carbon tetrachloride. Yield was 10 g. resinous matter, this was distilled alone per se, in a small porcelain retort. Apparently nothing distilled excepting trace of the solvent still contained in it. Upon evaporating the distillate, a substance similar in appearance to the original obtained. The residue in retort had a very disagreeable odor but appears to be thicker consistency than original, black in color.

resembling the odor when fish + sawdust are distilled

Creosote

4/6/00

Willits, dry, 100 gr - crushed
Heart-roots of grain wood
in iron retort with naked
flame. A liquid came over
smelling strongly of burnt
wood and bearing particles
of carbon in suspension.
This was filtered through tissue
close and then shaken with
carbon bisulphide in separatory
funnel - A black disagreeable
smelling somewhat viscid towards
oily liquid remains.




#886 4/7/00

Distilled the material that had been extracted with $CS_2$ in an iron retort with naked flame.

A liquid similar to #885 comes over. The carbon is filtered off and the filtrate treated with Ether in separatory funnel.

a The residue after Ether evaporates is a dark-brown disagreeable pungent smelling oily liquid

b Then with Benzol.
Pure black - some what like the first (a)

c Then with Chloroform
darker in color than Ether (a) thicker and not so strong smelling

d Then Benzine - Nothing taken out.

e - Then $CS_2$.

f - Then Gasoline

#887 - Master cylinders
4/9/00 99% Reg
1% Carnauba

#888
4/9/00 95% Reg
5% Carnauba

889
4/9/00 93% Reg
7% Carnauba

890
4/9/00 90% Reg.
10% Carnauba

891
4/9/00 85% Reg
15% Carnauba

892
4/9/00 75% Reg
25% Carnauba

893
4/9/00 75% Reg.
10% Carnauba
15% Spermaceti.

894
4/9/00 75% Reg
15% Carnauba
10% Spermaceti

895
4/9/00 65% Reg.
25% Carnauba
10% Spermaceti

896
4/9/00 75% Reg.
15% Carnauba
10% Stearic Acid

897
4/9/00 99% Reg
1% Manilla Gum XXXX
The gum will not dissolve

898 Grease Wood.
4/10/00 Placed 50 grs in Extractor moistened with Water and then extracted with ether.
10% Extracted - The extracted material is very fragrant and more liquid & oily, not so resinous but sticky

899— grease wood
4/1900 Benzoic acid in it?

Dissolved the crystalline ppt in 8/2 which I think is Benzoic acid in 1/2 water to recrystallize—

Took 2 jugs burned clothes and decolorized them with slaked lime by boiling

900 4/1/00

Tested distillate - water in pg 3
with $BaCl_2$ - no ppt

Conc. the entire distillate by redistilling - if volatile acid is in it - it will readily be carried over with steam.

Then treated conc. distillate with following reagents - $CaCl_2$, $CuSO_4$, $NH_4OH$. $K_4FeCu_6$, $K_3FeCu_6$, $K_2Cr_2O_4$ $SnCl_2$, $(NH_4)_2C_2O_4$, $NH_4Cl$, $HgNO_3$, $PtCl_4$ $U(C_2H_3O_2)_4$.

none gave a ppt in the cold,
In the hot, $K_4FeCu_6$, $K_3FeCu_6$ and $HgNO_3$ gave a slight turbidity, while the odor of formic acid was noticeable in the two former.

901 4/10/00

Treated the extracted materials obtained in #874 with the following solvents

a - alcohol - filtered off insoluble portion then melted it past 360 - a resinous solid - about

b - Ether - Completely soluble - yellow transparent viscous material - no change

c - $CS_2$ - Completely soluble

d - Benzol - completely soluble

e - Benzine - very little

f - gasoline - very little

g - water - appearance of nothing

h - Kerosene - very little

902 4/11/00

Treated the stem left after #903 with the following solvents respectively. allowed each 1 hr.

903 - 4/11/00

Petroleum - Nothing extracted

904 4/11/00

Gasoline - Nothing extracted

905 - 4/11/00

Benzine. - Forms out a colourless oil which drops up upon Standing exposed.

906 4/11/00

Alcohol - Colourless Aqueous resinous mass which upon Standing separates into an oil and such a resinous body.

907 - 4/11/00

Benzole.

Not so white as 906 but about ¼ the quantity and not so black

908 4/11/00
Carbon tetrapeptide -
Small quantity of light colored flakes, mass which dries up to a gum like body

909 4/11/00
Ether
a substance that dries up to a sticky powder

910 - 4/11/00
Chloroform
Similar to #908 But not so gummy.

911 - 4/11/00

Acetic Ether.

Somewhat like in appearance # 907 but more oily and yet unlike # 906

912 4/11/00

Moistened with ammonia and then extracted with Ether.

The ether then extracts nic.

Special Cylinder for Unruh

#913 - 240 gr Syrian Asphalt
4/17/00 1 1/8 gr Soda (caustic)
12 gr Carnauba

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#914 250 gr 5% carnauba
4/18/00 1 pt soda (caustic)
175 Syrian Asphalt
very brittle & Hard - Difficult to Shave.

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#915 95-0% #914
4/19/00 5% Paraffin

---

#916 95-0% 914
4/19/00 5% Ceresine

917
4/19/00

95% #914
5% Japan wax

---

918
4/19/00

90 pts Syrian Asphalt
100 pts Carnauba
3 pts Caustic Soda

very thick - not as thin as #914

Gives good result with Stokes

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919
4/20/00

90 pts Syrian Asphalt
150 pts Carnauba
3 pts Caustic Soda

920
4/20/00

200 pts Carnauba
100 pts Syrian Asphalt
10 pts par. 130

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921
4/20/00

100 pts Carnauba
100 pts Syrian Asphalt
20 pts par 130

---

922
4/20/00

100 pts carnauba
150 pts Syrian Asphalt
20 pts paraffine 180

Sticks to mould when pressed

923 - 4/20/00
100 pts Carnauba
200 pts Syrian asphalt
25 pts paraffin/30

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923 - 4/24/00
30 pts Syrian Asphalt
1 pt Caustic Soda
40 pts Carnauba

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923 - 4/24/00
30 pts Syrian Asphalt
1 pt. Caustic Soda
60 pts Carnauba

926 30 pts Syrian Asphalt
4/24/00 1 pt Caustic Soda
70 pts Carnauba

927 30 pts Syrian Asphalt
4/24/00 2 Caustic Soda
40 Carnauba

Mineral Acid 7000 pts
Acetic 154 pts
Used in 1928-1929-930.

Cheap Mix

1928 70 pts Stearic Acid
11/00 3 " Wax
1 " Cosmolene
20 " Cylinder Wax
10 " Paraffine

1929 70 pts Stearic Acid
7/00 3 " Wax
1 " Cosmolene
1 " Oleic
20 " Cylinder Wax
10 " Paraffine

11/930 -40 [illegible] Soda

5/7/00 31 " Res. Ca. 200:10
2J [illegible]
2 " mg. ca.

---

931 added Paraffine to
5/14/00 a [illegible] solution
of Nitrate of iron. This
did as expected - threw
out the Nitrate of iron
and would not dissolve
in it or with it.

932
5/14/00 added flowers of sulphur to a mixture of fluoric acid and W. W rain the sulphur dissolves but the mixture is a soft fluoric mass

933
5/14/00 added flowers of sulphur to ~~a mixture of~~ melted rough glass ~~and~~ W. W. fluoric

Any amount of sulphur goes in - see #937 etc

934
5/14/00 Added 3 drops of sulphur to Naphthalin.

No action whatever

935
5/14/00 Sulphur to Stearate of Soda 700:1.5-4

Retain very clear and scarcely 1% was absorbed during the entire afternoon

936
5/14/00

Sulphur to Regnocer.

The note under #935 applies here. In both cases the color became quite dark.

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937
5/15/00

Zone with various % of Sulphur.

| | | |
|---|---|---|
| 100% | Sulphur | Sticky |
| 5% | " | |
| 10% | " | |
| 15% | " | |
| 20 | " | |
| 25 | " | |
| 30 | " | |
| 35 | " | beer |
| 40 | " | |
| 45 | " | -N.g. |

938
5/15/00 Burgundy pitch & Sulphur.
Stick.

939
5/16/00 Sulphur & paraffin
5% Sulphur
10 %
The sulphur shows decrease but the remaining compound is indifferent to ferricyanide of iron in both cases.

940 Sulphur + Cerasine
5/16/00 5% Sulphur
10% "

The Sulphur and remainder of Mass are Medicament in both Cases.

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941 Sulphur + H2O cerasine
5/16/00 5% Sulphur
5/17/00 10% "
15% "
20% "
25% "
30% "

Sulphur + H2O Do not Chemically Combine. Atomic forces only upon Standing

942
5/17/00 50% "937 - 3%
50% Phenate Soda 100-1½

943
5/17/00 ~~50~~% "937 - 3%
~~50~~% Phenate Soda 100-1½

9 4 4 40% #937 - 35-
5/17/00 60% Stearate Soda

9 4 5
5/17/00 5 g. Crystals of iron added to #941 - 10%

The Sulphur comes out upon standing

946
5/17/00 10 g ferrinate iron added to 941-179.

Fe = 94.5

947
5/17/00 15 g ferrinate iron added to 941-179.

Fe = 94.5

748
5/18/00 Castor oil & sulphur.
The oil darkens in color but other wise there is no change.

749
5/18/00 Linsed oil & sulphur
darker, apparently no chemical reaction.

950
5/18/00 Olive acid + sulphur

Acid darker + thicker

951
5/18/00 Cottonseed oil + sulphur

No change, oil has in suspension golden crystals which resemble sulphur.

952
5/18/00 Nitric + liver of sulphur

Plastic - about the
Same as with p. Carm
Sulphur

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953
5/18/00 Nitric + Sodium potato
Sulphide.

Very hard to react
+ very slow if any reaction,
otherwise same as #952

954 Syrian Asphalt + Sulphur
5/18/00

The Syrian Asphalt has most too high a melting point although the Sulphur apparently dilutes. See # 958

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953 Syrian Asphalt + Lewis
5/18/00 of Sulphur

See # 954 Item #959

956 Syrian Asphalt +
5/18/00 Sodium pentasulphide

JCC # 954

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957 Rosin oil + Sulphur
5/18/00

Oil much thicker
and no rosin smell at
all. - darker

958
5/18/00 50 pts Syrian Arphaes
50 pts Samaniva
5 pts sweepers.

959
5/18/00 50 pts Syrian Arphaes
50 pts Samaniva
5 pts liver sweepers

960
5/18/00 75 pts Carnauba
~~50 pts Spiral Asphalt~~
~~5 pts Zephrus~~

961 linseed oil + liver of
5/19/00 zephrus

Stiffer than "949 otherwise
Nutchoupa

962 linseed oil + sodium
1/19/00 pentachlorophenate

See # 961

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963 Castor oil + linseed oil
1/19/00 Sulphur

No different than
# 948

964 Castor oil + Sodium fluta
1/19/00 Sulphide

No reaction.

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965 Rosin oil + Excess of
1/19/00 Sulphur

Thicker than #957

966 Rosin oil + Sodium
5/19/00 pentasulphide

No Change

967 Castor Seed oil
5/19/00 + basic of Quinolines

No Change

Cylinders for wood

1968. 90 pts Syrian Asphalt
1/21/00 100 pts Carnauba
3 " Caustic Soda
5 " paraffin

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1969
1/21/00 90 pts Syrian Asphalt
100 " Carnauba
3 " Caustic Soda
5 " Black Oxide

770
1/21/00

90 pts Syrian Asphalt
100 " Camauba
3 " Caustic Soda
20 " Neutral Soda 700:150

---

Cheap Wax

971
1/21/00

80 pts Syrian Asphalt
10 " paraffine
5 " Sulphur.

The Asphalt + paraffine will only mix before the melting point of the asphalt is reached - the paraffine volatilizes and what little is combined is ineffective by the S.

772 50 pts Syrian Asphalt
7/21/00 50 pts paraffine
5 " Lbs of Sulphur

See # 971

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973 50 pts Syrian Asphalt
7/21/00 50 " paraffine
5 " Sodium para sulphide

See # 971

974
5/21/00 50 pcs Reticulum
50 pcs paraffin
5 " Sucrose

97J-

400 g. Cyclopentanone

5/22/00 Kieselguhr Soda 700:112

a- 40 the flask here contains

b- 80 the mixture cools before

c- 120 distillation

d- 160

e- 200

f- 20 g Kieselguhr Alumina

g- 10 g. paraffin.

e. d. c- f and g bear

i

medium to be more sticky

than others

976 400 g. Copperwood
5/22/00 Coating
a- 20 g
b- 40 g
c- 60 g.

---

d - 20 g Mg Silicate 100:10
e = 20 g Carnauba
f = 20 g Syrian Asphalt
g = 5 g Cavitic Oxide

---

d - e - f and g are

977 400 g Copperwork
5/2/00 Cleans whites.
a - 20
b - 40 - not homogeneous
c - 60

d - 20 g Ultimate Wax
very frothy
e - 30 g Ultimate Shine 100/15
f - 10 g Carnauba

e - e and f are best
but a little too soft

978 400 g Cyprinotrin
5/27/00 BCK ceramic
40
60

BCK ceramic is no g to be used – the Cyprinotrin may being washed to protect also the BCK ceramic – the remaining moisture in the cage from mice must leave BCK ceramic out entirely

979 400 g. cpp provvisorio
5/2/00 Negroce

a = 40 g.
b = 80 g.
c = 120 g.
d = 160 g.
e = 200 g.
f = 240 g.

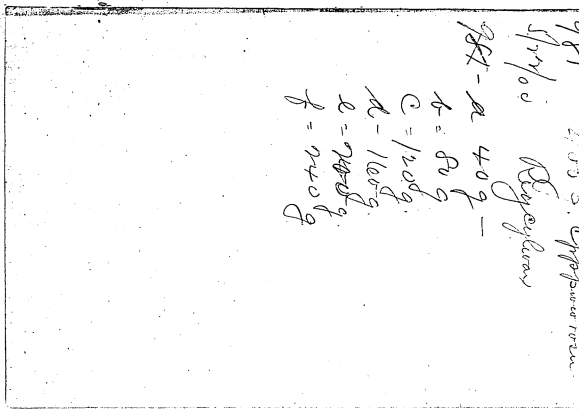
980
1/11/00 300 g Cyclohexanone
150 g Stearate Soda 700, 15 g
Stearate zinc

a 20 g
b 40 g
c 60 g
d 80 g

I including

#981 Work of Procedure The knitting Mitten. about the same Cutting Size and shaping appearance - but beginning Differ, if desired # Remain to the fingers - the rest be somewhat better and attain Thinness, depending upon the Temperature - a Right measure of temperature causing Thickness.

#982 - #991 are a few that appear



Μια μικρή ποσότητα διαλύεται σε
βρασμένο νερό με λίγο γλυκόζη
και ψεκάζουμε τα φύλλα.
Στη συνέχεια χύνεται το μαύρο σε μια
πιο μεγάλη ποσότητα νερού ανάλογα με
τη θερμοκρασία του περιβάλλοντος
χώρου. Με αυτό το διάλυμα βάζουμε
στους σταφυλοκόκκους μόλις δούν τους
πρώτους κόκκους και ξανά μετά 15 μέρες.

982 400 g. σταφυλοκόκκοι
5/11/00 120 g. θειικός χαλκός 700:154

983 400 g. σταφυλοκόκκοι
5/11/00 160 g. θειικός χαλκός 700:154

Acid low boil to Stand Time the above.
If the Lump [illegible] Sp. Attached
Above 150 °C. [illegible] assumption by
Above [illegible] to Molecule by NMR
Acetone water $H_2S$ $CS_2$ Rem Mix, Mixture
Benzene Carbon Acid Equation Given
Volatile Organic Acids

Jpt 400 g. Cyclohexanone
5/27/00 200 g. Stearate Soda 700:154

Jpt 400 g. Cyclohexanone
5/24/00 60 g. paraffin
20 g. Stearate Mg. 100 : 10
20 g. Carnauba

986
1/24/00

400 g. Cyclomethicone
60 g. Paraffin
20 g. Isostearate 100:10
20 g. Carnauba
20 g. Syrian Asphalt

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987
1/24/00

400 g. Cyclomethicone
40 g. White Ceresin

988 400 g. Сухофрукты
60 g. Чайн семена
1/24/00.

989 400g. Сухофрукты
60g. Чайн семена
1/24/00 20g. Изюм

990

400 g. Copper oxide
60 g. Abietic acid
20 g. Ferric iron
20 g. Acetate zinc 100:55

J/24/00

991

400 g. Copper oxide
60 g. Abietic acid
20 g. Ferric iron
20 g. Acetate zinc 100:55
40 g. Carnauba

J/24/00

Too much work
impossible to mix uniform

792
100 pts < 400 g. Cp/p/pw/rr/m
120 " Gleanings Poda

1/00 Cpts Gum Arabic

Not completely dissolved

793
100 pts < 400 g. Cp/p/pw/rr/m
120 " Gleanings Poda

4/00 a - 5" " Gum Ghatti
b - 10 " "

994
1/24/00 100 pcs < 400 g Chlorhexamorm
120 g Chloride Soda

a - 5 pcs from Jacamobac

b - 10 " "

995
1/24/00 100 pcs < 400 g Chlorhexamorm
1:0 g Chloride Soda

5 " from Amchem

96
74/00 100 pts

198
1/15/00

very frothy.

199
1/21/00

For continuation
see N-0019-23